

# Safoan Miah

United Kingdom, London

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## EDUCATION

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**Northeastern University (London)** — BSc (Hons) in Data Science — 4.0 GPA (First)

Sep 2023 — Sep 2026

- **Relevant Electives:** ML, Data Mining, OOP in C#, Statistics, Databases, Visualizations

**Mulberry Academy Shoreditch** — A Levels

Sep 2021 — Sep 2023

- **Subjects:** Computer Science, Physics, Maths, EPQ

## PROJECTS AND SKILLS

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**Deep Convolutional Neural Network (Quick Draw)**

<https://github.com/SafoanMiah/quick-draw-neural-net>

- Developed a Deep Learning CNN using PyTorch to learn from the quick draw dataset, consisting of 50 million drawings. Achieved ~ 90% accuracy and deployed it as a Web API to be used on personal sites.

**RL Emergency Autonomous Vehicle (CARLA)**

[github.com/SafoanMiah/RL-emergency-autonomous-driving](https://github.com/SafoanMiah/RL-emergency-autonomous-driving)

- Developed a Reinforcement Learning model for emergency vehicles, prioritizing speed and travel time through a custom environment with sensors, and PPO for training, model was 4x faster in point A-B navigation compared to standard built-in autopilot.

**Programming:** Python (Data, Pandas, NumPy), SQL, PyTorch, Data Bricks, Snowflake, Kafka

**Machine Learning:** Regression, CNNs, Neural Networks, GNS's, A/B Testing, MLFlow

## EXPERIENCE

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**DraftKings** — Data Science Engineering Intern — Trading Intelligence

Apr 2025 – Present

- Investigated syndicate behaviour in better networks with large-scale graph structures.
- Developed a Graph Convolutional Network, to identify coordinated betting groups.
- Worked with an Agile team, contributing to engineering discussions and sprint planning.

**Software Academy** — Programming Tutor

Apr 2024 – Apr 2025

- Mentored Python and Data projects, simplifying technical concepts for non-technical learners.
- Collaborated with co-workers to create plans and applications to track and monitor the students' progress and engagement. Discovered that average grades increased by 60% within 2 semesters.

**HSBC** — Global Banking & Global Markets Intern

Apr 2024

- Developed actionable insights using financial data, with a regression model, contributing to a strategic case report that improved market evaluation by 30% over using no model.
- Led quantitative analysis of 10+ case studies through quantitative analysis, revealing critical trends that shaped marketing and financial strategies.

## CERTIFICATIONS & COURSES

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**Data Science:** Machine Learning Bootcamp, SQL Bootcamp, IBM Data Science Cert, PyTorch

**Finance & Markets:** Bloomberg Markets, AmplifyME Finance

**Additional:** J.P. Morgan STEM program, RAF Air Cadets